

20

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agt gcc tcg gag ggg ccc tcg gct gcc cca ccc tcg gag cca ctg cta	450
Ser Ala Ser Glu Gly Pro Ser Ala Ala Pro Pro Ser Glu Pro Leu Leu	
25 30 35	
gaa ggg gcc gct ccc cag cct ttc acc acc tct gat gac acc ccc tgc	498
Glu Gly Ala Ala Pro Gln Pro Phe Thr Thr Ser Asp Asp Thr Pro Cys	
40 45 50	
cag gag cag ccc aag gaa gtc ctt aag gct ccc agc acc tcg ggc ctt	546
Gln Glu Gln Pro Lys Glu Val Leu Lys Ala Pro Ser Thr Ser Gly Leu	
55 60 65 70	
cag cag gtg gcc ttt cag cct ggg cag aag gtt tat gtg tgg tac ggg	594
Gln Gln Val Ala Phe Gln Pro Gly Gln Lys Val Tyr Val Trp Tyr Gly	
75 80 85	
ggt caa gag tgc aca gga ctg gtg gag cag cac agc tgg atg gag ggt	642
Gly Gln Glu Cys Thr Gly Leu Val Glu Gln His Ser Trp Met Glu Gly	
90 95 100	
cag gtg acc gtc tgg ctg ctg gag cag aag ctg cag gtc tgc tgc agg	690
Gln Val Thr Val Trp Leu Leu Glu Gln Lys Leu Gln Val Cys Cys Arg	
105 110 115	
gtg gag gag gtg tgg ctg gca gag ctg cag ggc ccc tgt ccc cag gca	738
Val Glu Glu Val Trp Leu Ala Glu Leu Gln Gly Pro Cys Pro Gln Ala	
120 125 130	
cca ccc ctg gag ccc gga gcc cag gcc ctg gcc tac agg ccc gtc tcc	786
Pro Pro Leu Glu Pro Gly Ala Gln Ala Leu Ala Tyr Arg Pro Val Ser	
135 140 145 150	
agg aac atc gat gtc cca aag agg aag tcg gac gca gtg gaa atg gat	834
Arg Asn Ile Asp Val Pro Lys Arg Lys Ser Asp Ala Val Glu Met Asp	
155 160 165	
gag atg atg gcg gcc atg gtg ctg acg tcc ctg tcc tgc agc cct gtt	882
Glu Met Met Ala Ala Met Val Leu Thr Ser Leu Ser Cys Ser Pro Val	
170 175 180	
gta cag agt cct ccc ggg acc gag gcc aac ttc tct gct tcc cgt gcg	930
Val Gln Ser Pro Pro Gly Thr Glu Ala Asn Phe Ser Ala Ser Arg Ala	

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185	190	195	
gcc tgc gac cca tgg aag gag agt ggt gac atc tcg gac agc ggc agc			978
Ala Cys Asp Pro Trp Lys Glu Ser Gly Asp Ile Ser Asp Ser Gly Ser			
200	205	210	
agc act acc agc ggt cac tgg agt ggg agc agt ggt gtc tcc acc ccc			1026
Ser Thr Thr Ser Gly His Trp Ser Gly Ser Ser Gly Val Ser Thr Pro			
215	220	225	230
tcg ccc ccc cac ccc cag gcc agc ccc aag tat ttg ggg gat gct ttt			1074
Ser Pro Pro His Pro Gln Ala Ser Pro Lys Tyr Leu Gly Asp Ala Phe			
235	240	245	
ggt tct ccc caa act gat cat ggc ttt gag acc gat cct gac cct ttc			1122
Gly Ser Pro Gln Thr Asp His Gly Phe Glu Thr Asp Pro Asp Pro Phe			
250	255	260	
ctg ctg gac gaa cca gct cca cga aaa aga aag aac tct gtg aag gtg			1170
Leu Leu Asp Glu Pro Ala Pro Arg Lys Arg Lys Asn Ser Val Lys Val			
265	270	275	
atg tac aag tgc ctg tgg cca aac tgt ggc aaa gtt ctg cgc tcc att			1218
Met Tyr Lys Cys Leu Trp Pro Asn Cys Gly Lys Val Leu Arg Ser Ile			
280	285	290	
gtg ggc atc aaa cga cac gtc aaa gcc ctc cat ctg ggg gac aca gtg			1266
Val Gly Ile Lys Arg His Val Lys Ala Leu His Leu Gly Asp Thr Val			
295	300	305	310
gac tct gat cag ttc aag cgg gag gag gat ttc tac tac aca gag gtg			1314
Asp Ser Asp Gln Phe Lys Arg Glu Glu Asp Phe Tyr Tyr Thr Glu Val			
315	320	325	
cag ctg aag gag gaa tct gct gct gct gct gct gct gct gcc gca ggc			1362
Gln Leu Lys Glu Glu Ser Ala Ala Ala Ala Ala Ala Ala Ala Ala Gly			
330	335	340	
acc cca gtc cct ggg act ccc acc tcc gag cca gct ccc acc ccc agc			1410
Thr Pro Val Pro Gly Thr Pro Thr Ser Glu Pro Ala Pro Thr Pro Ser			
345	350	355	
atg act ggc ctg cct ctg tct gct ctt cca cca cct ctg cac aaa gcc			1458

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Met Thr Gly Leu Pro Leu Ser Ala Leu Pro Pro Pro Leu His Lys Ala
 360 365 370

cag tcc tcc ggc cca gaa cat cct ggc ccg gag tcc tcc ctg ccc tca 1506
 Gln Ser Ser Gly Pro Glu His Pro Gly Pro Glu Ser Ser Leu Pro Ser
 375 380 385 390

ggg gct ctc agc aag tca gct cct ggg tcc ttc tgg cac att cag gca 1554
 Gly Ala Leu Ser Lys Ser Ala Pro Gly Ser Phe Trp His Ile Gln Ala
 395 400 405

gat cat gca tac cag gct ctg cca tcc ttc cag atc cca gtc tca cca 1602
 Asp His Ala Tyr Gln Ala Leu Pro Ser Phe Gln Ile Pro Val Ser Pro
 410 415 420

cac atc tac acc agt gtc agc tgg gct gct gcc ccc tcc gcc gcc tgc 1650
 His Ile Tyr Thr Ser Val Ser Trp Ala Ala Ala Pro Ser Ala Ala Cys
 425 430 435

tct ctc tct ccg gtc cgg agc cgg tcg cta agc ttc agc gag ccc cag 1698
 Ser Leu Ser Pro Val Arg Ser Arg Ser Leu Ser Phe Ser Glu Pro Gln
 440 445 450

cag cca gca cct gcg atg aaa tct cat ctg atc gtc act tct cca ccc 1746
 Gln Pro Ala Pro Ala Met Lys Ser His Leu Ile Val Thr Ser Pro Pro
 455 460 465 470

cgg gcc cag agt ggt gcc agg aaa gcc cga ggg gag gct aag aag tgc 1794
 Arg Ala Gln Ser Gly Ala Arg Lys Ala Arg Gly Glu Ala Lys Lys Cys
 475 480 485

cgc aag gtg tat ggc atc gag cac cgg gac cag tgg tgc acg gcg tgc 1842
 Arg Lys Val Tyr Gly Ile Glu His Arg Asp Gln Trp Cys Thr Ala Cys
 490 495 500

cgg tgg aag aag gcc tgc cag cgc ttt ctg gac tga gctgtgctgc 1888
 Arg Trp Lys Lys Ala Cys Gln Arg Phe Leu Asp
 505 510

aggttctact ctgttcttgg ccctgccggc agccactgac aagaggccag tgtgtcacca 1948

gccctcagca gaaaccgaaa gagaaagaac ggaaacacgg agtttgggct ctgttggcta 2008

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aggtgtaaca cttaaagcaa ttttctccca ttgtgcgaac attttatattt ttaaaaaaaaa 2068

<210> 2

<211> 513

<212> PRT

<213> Homo sapiens

<400> 2

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Ala	Arg	Val	Leu	Gly	Pro	Ser	Ala	Ser	Glu	Gly	Pro	Ser	Ala	Ala	Pro
			20						25					30	
Pro	Ser	Glu	Pro	Leu	Leu	Glu	Gly	Ala	Ala	Pro	Gln	Pro	Phe	Thr	Thr
		35					40					45			
Ser	Asp	Asp	Thr	Pro	Cys	Gln	Glu	Gln	Pro	Lys	Glu	Val	Leu	Lys	Ala
	50					55					60				
Pro	Ser	Thr	Ser	Gly	Leu	Gln	Gln	Val	Ala	Phe	Gln	Pro	Gly	Gln	Lys
	65				70					75				80	
Val	Tyr	Val	Trp	Tyr	Gly	Gly	Gln	Glu	Cys	Thr	Gly	Leu	Val	Glu	Gln
				85					90					95	
His	Ser	Trp	Met	Glu	Gly	Gln	Val	Thr	Val	Trp	Leu	Leu	Glu	Gln	Lys
			100					105					110		
Leu	Gln	Val	Cys	Cys	Arg	Val	Glu	Glu	Val	Trp	Leu	Ala	Glu	Leu	Gln
		115					120						125		
Gly	Pro	Cys	Pro	Gln	Ala	Pro	Pro	Leu	Glu	Pro	Gly	Ala	Gln	Ala	Leu
	130					135					140				
Ala	Tyr	Arg	Pro	Val	Ser	Arg	Asn	Ile	Asp	Val	Pro	Lys	Arg	Lys	Ser
	145				150					155				160	
Asp	Ala	Val	Glu	Met	Asp	Glu	Met	Met	Ala	Ala	Met	Val	Leu	Thr	Ser
			165					170				175			
Leu	Ser	Cys	Ser	Pro	Val	Val	Gln	Ser	Pro	Pro	Gly	Thr	Glu	Ala	Asn
		180					185					190			
Phe	Ser	Ala	Ser	Arg	Ala	Ala	Cys	Asp	Pro	Trp	Lys	Glu	Ser	Gly	Asp
	195					200					205				
Ile	Ser	Asp	Ser	Gly	Ser	Ser	Thr	Thr	Ser	Gly	His	Trp	Ser	Gly	Ser
	210					215					220				
Ser	Gly	Val	Ser	Thr	Pro	Ser	Pro	Pro	His	Pro	Gln	Ala	Ser	Pro	Lys
	225				230					235				240	
Tyr	Leu	Gly	Asp	Ala	Phe	Gly	Ser	Pro	Gln	Thr	Asp	His	Gly	Phe	Glu
			245						250				255		
Thr	Asp	Pro	Asp	Pro	Phe	Leu	Leu	Asp	Glu	Pro	Ala	Pro	Arg	Lys	Arg
		260						265					270		

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Lys Asn Ser Val Lys Val Met Tyr Lys Cys Leu Trp Pro Asn Cys Gly
 275 280 285
 Lys Val Leu Arg Ser Ile Val Gly Ile Lys Arg His Val Lys Ala Leu
 290 295 300
 His Leu Gly Asp Thr Val Asp Ser Asp Gln Phe Lys Arg Glu Glu Asp
 305 310 315 320
 Phe Tyr Tyr Thr Glu Val Gln Leu Lys Glu Glu Ser Ala Ala Ala Ala
 325 330 335
 Ala Ala Ala Ala Ala Gly Thr Pro Val Pro Gly Thr Pro Thr Ser Glu
 340 345 350
 Pro Ala Pro Thr Pro Ser Met Thr Gly Leu Pro Leu Ser Ala Leu Pro
 355 360 365
 Pro Pro Leu His Lys Ala Gln Ser Ser Gly Pro Glu His Pro Gly Pro
 370 375 380
 Glu Ser Ser Leu Pro Ser Gly Ala Leu Ser Lys Ser Ala Pro Gly Ser
 385 390 395 400
 Phe Trp His Ile Gln Ala Asp His Ala Tyr Gln Ala Leu Pro Ser Phe
 405 410 415
 Gln Ile Pro Val Ser Pro His Ile Tyr Thr Ser Val Ser Trp Ala Ala
 420 425 430
 Ala Pro Ser Ala Ala Cys Ser Leu Ser Pro Val Arg Ser Arg Ser Leu
 435 440 445
 Ser Phe Ser Glu Pro Gln Gln Pro Ala Pro Ala Met Lys Ser His Leu
 450 455 460
 Ile Val Thr Ser Pro Pro Arg Ala Gln Ser Gly Ala Arg Lys Ala Arg
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 Gly Glu Ala Lys Lys Cys Arg Lys Val Tyr Gly Ile Glu His Arg Asp
 485 490 495
 Gln Trp Cys Thr Ala Cys Arg Trp Lys Lys Ala Cys Gln Arg Phe Leu
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Asp

<210> 3

<211> 1901

<212> DNA

<213> Homo sapiens

<400> 3

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 tggaaatgga tgagatgatg gcggccatgg tgctgacgtc cctgtcctgc agccctgttg 180

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tacagagtcc tcccgggacc gaggccaact tctctgcttc ccgtgcggcc tgcgacccat 240
ggaaggagag tggtagacatc tcggacagcg gcagcagcac taccagcggg cactggagtg 300
ggagcagtgg tgtctccacc cctctgcccc cccaccccca ggccagcccc aagtatttgg 360
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tgctggacga accagctcca cgaaaaagaa agaactctgt gaaggatgat tacaagtgcc 480
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ccctccatct gggggacaca gtggactctg atcagttcaa gcgggaggag gatttctact 600
acacagaggt gcagctgaag gaggaatctg ctgctgctgc tgctgctgct gccgcaggca 660
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gcccggagtc ctccctgccc tcaggggctc tcagcaagtc agctcctggg tccttctggc 840
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<210> 4

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:PCR Primer

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33

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<210> 5
<211> 34
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<220>
<223> Description of Artificial Sequence:PCR Primer

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<210> 6
<211> 9
<212> PRT
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<223> Description of Artificial Sequence:Synthetic
Peptide

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<210> 7
<211> 9
<212> PRT
<213> Artificial Sequence

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<223> Description of Artificial Sequence:Synthetic
Peptide

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<210> 8
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<212> PRT

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic
Peptide

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Gly Phe Glu Thr Asp Pro Asp Pro Phe
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<210> 9

<211> 9

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Synthetic
Peptide

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Lys Tyr Leu Gly Asp Ala Phe Gly Ser
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<210> 10

<211> 9

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Synthetic
Peptide

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Arg Ser Leu Leu Gly Ala Arg Val Leu
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<210> 11

<211> 9

<212> PRT

<213> Artificial Sequence

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<220>

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Peptide

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Ala Ala Pro Pro Ser Glu Pro Leu Leu
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<210> 12

<211> 9

<212> PRT

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Peptide

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<210> 13

<211> 9

<212> PRT

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Peptide

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<210> 14

<211> 9

<212> PRT

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<220>

<223> Description of Artificial Sequence:Synthetic
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<210> 15

<211> 9

<212> PRT

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<210> 16

<211> 9

<212> PRT

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Met Tyr Lys Cys Leu Trp Pro Asn Cys
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<210> 17

<211> 9

<212> PRT

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<223> Description of Artificial Sequence:Synthetic
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<210> 18

<211> 9

<212> PRT

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<223> Description of Artificial Sequence:Synthetic
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Cys Gln Glu Gln Pro Lys Glu Val Leu

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<210> 19

<211> 9

<212> PRT

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<223> Description of Artificial Sequence:Synthetic
Peptide

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<210> 20

<211> 9

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Synthetic

13/24

Peptide

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<210> 21

<211> 9

<212> PRT

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<210> 22

<211> 9

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Synthetic
Peptide

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Gly Pro Cys Pro Gln Ala Pro Pro Leu

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<210> 23

<211> 9

<212> PRT

<213> Artificial Sequence

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Peptide

14/24

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<210> 24

<211> 9

<212> PRT

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Peptide

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Arg Trp Lys Lys Ala Cys Gln Arg Phe

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<210> 25

<211> 9

<212> PRT

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Ser Ala Ala Pro Pro Ser Glu Pro Leu

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<210> 26

<211> 10

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Peptide

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<210> 27

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<223> Description of Artificial Sequence:Synthetic
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Ala Tyr Gln Ala Leu Pro Ser Phe Gln Ile
1 5 10

<210> 28

<211> 10

<212> PRT

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<223> Description of Artificial Sequence:Synthetic
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1 5 10

<210> 29

<211> 10

<212> PRT

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<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 29

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<210> 30

<211> 10

<212> PRT

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Peptide

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Ser Phe Gln Ile Pro Val Ser Pro His Ile
1 5 10

<210> 31

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<212> PRT

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Peptide

<400> 31

Val Tyr Val Trp Tyr Gly Gly Gln Glu Cys
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<210> 32

<211> 10

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 32

Val Thr Val Trp Leu Leu Glu Gln Lys Leu

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<210> 33

<211> 10

<212> PRT

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<210> 34

<211> 10

<212> PRT

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Peptide

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<210> 35

<211> 10

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<223> Description of Artificial Sequence:Synthetic
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<210> 36

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<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 36

Val Gly Ile Lys Arg His Val Lys Ala Leu
1 5 10

<210> 37

<211> 10

<212> PRT

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<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 37

Asn Ser Val Lys Val Met Tyr Lys Cys Leu
1 5 10

<210> 38

<211> 10

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 38

Gln Gly Pro Cys Pro Gln Ala Pro Pro Leu
1 5 10

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<210> 39

<211> 10

<212> PRT

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<223> Description of Artificial Sequence:Synthetic
Peptide

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Ile Gln Ala Asp His Ala Tyr Gln Ala Leu

1 5 10

<210> 40

<211> 10

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Synthetic
Peptide

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Met Met Ala Ala Met Val Leu Thr Ser Leu

1 5 10

<210> 41

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 41

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1 5 10

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<210> 42

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 42

Val Tyr Gly Ile Glu His Arg Asp Gln Trp
1 5 10

<210> 43

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 43

Ser Leu Ser Pro Val Arg Ser Arg Ser Leu
1 5 10

<210> 44

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 44

Ala Ala Ala Pro Ser Ala Ala Cys Ser Leu
1 5 10

<210> 45

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<211> 10

<212> PRT

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<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 45

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1

5

10

<210> 46

<211> 12

<212> PRT

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Peptide

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1

5

10

<210> 47

<211> 9

<212> PRT

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Peptide

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1

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<210> 48

<211> 9

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<212> PRT

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Peptide

<400> 48

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1 5

<210> 49

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<212> PRT

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<223> Description of Artificial Sequence:Synthetic
Peptide

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<210> 50

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<212> PRT

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<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 50

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<210> 51

<211> 10

<212> PRT

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<213> Artificial Sequence

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Peptide

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Peptide

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<213> Artificial Sequence

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<223> Description of Artificial Sequence:Synthetic
Peptide

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Ala	Cys	Arg	Trp	Lys	Lys	Ala	Cys	Gln	Arg
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Peptide

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Cys Thr Ala Cys Arg Trp Lys Lys Ala Cys Gln
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<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 55

Thr Ala Cys Arg Trp Lys Lys Ala Cys Gln Arg
1 5 10